

Title (en)

Method and device for measurement of the nip force and/or nip pressure in a nip formed by a revolving roll or a band that is used in the manufacture of paper.

Title (de)

Verfahren und Vorrichtung zum Messen der Kraft und/oder des Druckes in einem Spalt gebildet durch eine sich drehende Walze oder ein Band bei der Papierherstellung.

Title (fr)

Procédé et dispositif pour mesurer la force et/ou la pression dans un interstice formé par un rouleau tournant ou un ruban utilisé dans la production du papier.

Publication

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Application

EP 92850232 A 19921002

Priority

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Abstract (en)

The invention concerns a method and a device for measurement of the nip force and/or nip pressure in a nip (N) formed by a revolving roll or a band used in the manufacture of paper. In the method and in the device, a series of measurement detectors (20l...20n) is used, whose detectors (20) are placed across a considerable width of the paper web (W) in the transverse direction of the revolving roll (10) or the band. The measurement signals received from the different detectors (20) are passed to a switching unit (23), whose connectors (24l...24n) are controlled so that, through the switching unit (23), the signal of each measurement detector (20l...20n) is alternately connected to a telemeter transmitter (26) placed in connection with the revolving roll (10). By means of the telemeter transmitter (26), the series of measurement signals (Vin l...Vinn) are transmitted wirelessly to a stationary telemeter receiver (27) placed outside the revolving roll (10).

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G01L 5/00

IPC 8 full level

G01L 5/00 (2006.01)

CPC (source: EP US)

D21F 3/06 (2013.01 - EP US); **G01L 5/0085** (2013.01 - EP US)

Citation (applicant)

- FI 76872 B 19880831 - VALMET PAPER MACHINERY INC [FI]
- US 4791863 A 19881220 - VAEHAETALO HARRI [FI]
- FI 82092 B 19900928 - VALMET PAPER MACHINERY INC [FI]
- US 5043046 A 19910827 - LAAPOTTI JORMA [FI]
- FI 81768 B 19900831 - VALMET PAPER MACHINERY INC [FI]
- FI 81770 B 19900831 - VALMET PAPER MACHINERY INC [FI]
- US 4921183 A 19900501 - SAUKKONEN SEPPO [FI], et al
- US 4883233 A 19891128 - SAUKKONEN SEPPO [FI], et al
- WO 9113337 A1 19910905 - BELOIT CORP [US]
- FI 914830 A 19930415 - VALMET PAPER MACHINERY INC [FI]

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